

**6CB6-A****SHARP-CUTOFF PENTODE**

7-PIN MINIATURE TYPE

*With heater having controlled warm-up time***6CB6-A****GENERAL DATA****Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts
 Current. $0.3 \pm 6\%$ amp
 Warm-up time (Average) 11 sec

For definition of heater warm-up time and method of determining it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of this Section.

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^o</i>	
Grid No.1 to plate.	0.025 max.	0.015 max.	μf
Grid No.1 to cathode & internal shield & grid No.3, grid No.2, and heater.	6.5	6.5	μf
Plate to cathode & internal shield & grid No.3, grid No.2, and heater.	2	3	μf

Characteristics, Class A₁ Amplifier:

Plate-Supply Voltage.	125	125	volts
Grid No.3	◆	◆	
Grid-No.2 Supply Voltage.	125	125	volts
Grid-No.1 Voltage	-3	-	volts
Cathode Resistor.	-	56	ohms
Plate Resistance (Approx.).	-	0.28	megohm
Transconductance.	-	8000	μmhos
Plate Current	2.8	13	ma
Grid-No.2 Current	-	3.7	ma
Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 20$	-	-6.5	volts

Mechanical:

Operating Position. Any
 Maximum Overall Length. 2-1/8"
 Maximum Seated Length 1-7/8"
 Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" \pm 3/32"
 Diameter. 0.650" to 0.750"
 Dimensional Outline See General Section
 Bulb. T5-1/2
 Base. Small-Button Miniature 7-Pin (JEDEC No.E7-1)

^o, ◆: See next page.

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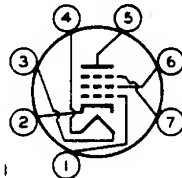


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SHARP-CUTOFF PENTODE

Basing Designation for Bottom View. 7CM

- Pin 1-Grid No.1
- Pin 2-Cathode
- Pin 3-Heater
- Pin 4-Heater
- Pin 5-Plate



- Pin 6-Grid No.2
- Pin 7-Grid No.3,
Internal
Shield

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	330 max.	volts
GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE . .	0 max.	volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE.	330 max.	volts
GRID-No.2 VOLTAGE	<i>See Grid-No.2 Input</i>	

Rating Chart at front of Receiving Tube Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive-bias value	0 max.	volts

GRID-No.2 INPUT:		
For grid-No.2 voltages up		
to 165 volts.	0.55 max.	watt
For grid-No.2 voltages be-		
tween 165 and 330 volts	<i>See Grid-No.2 Input</i>	

Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION	2.3 max.	watts
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PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with		
respect to cathode.	200 max.	volts
Heater positive with		
respect to cathode.	200 [▲] max.	volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:		
For fixed-bias operation.	0.25 max.	megohm
For cathode-bias operation.	1 max.	megohm

[○] With external shield JEDEC No.316 connected to cathode.

[◆] Connected to cathode at socket.

[▲] The dc component must not exceed 100 volts.

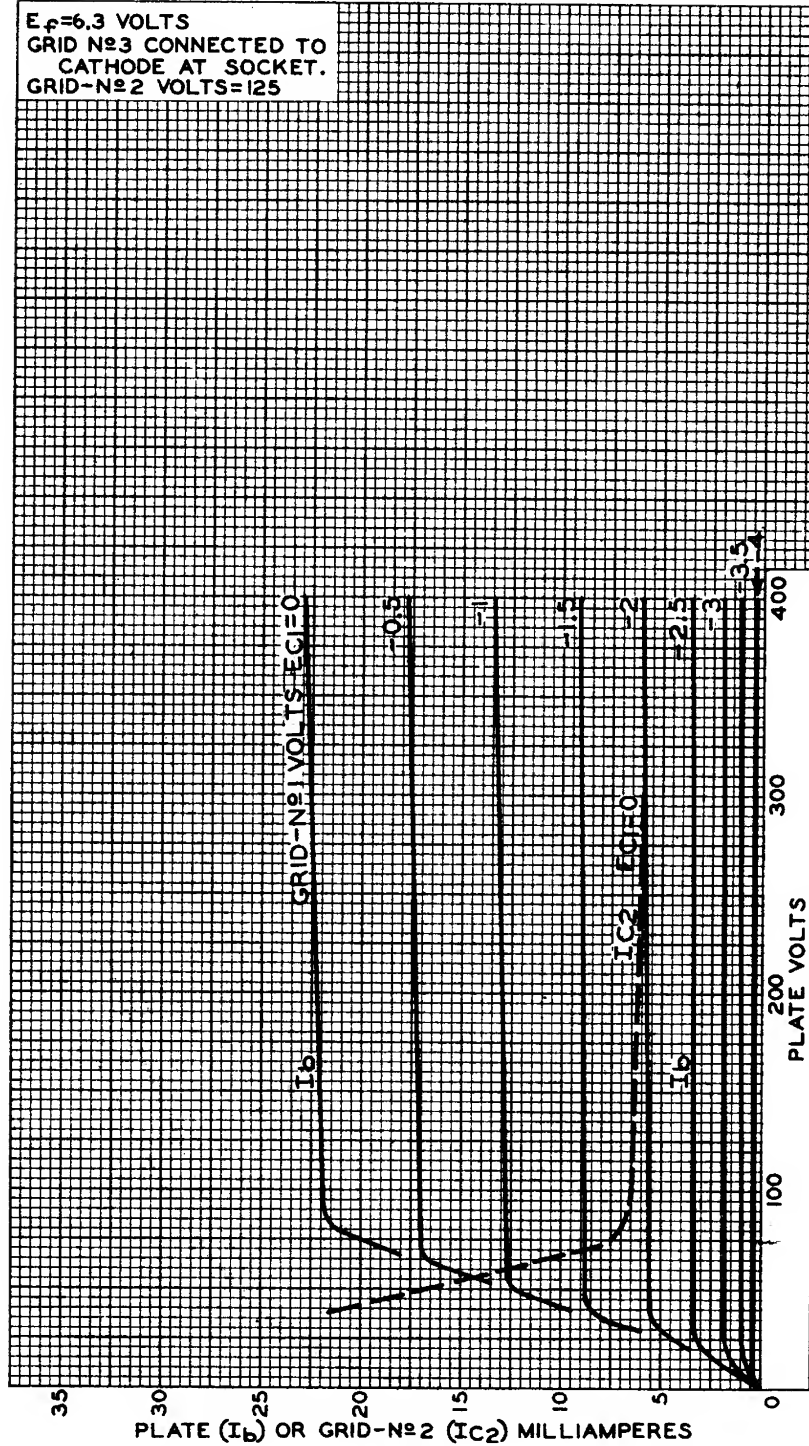


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AVERAGE CHARACTERISTICS

$E_p = 6.3$ VOLTS
GRID N \circ 3 CONNECTED TO
CATHODE AT SOCKET.
GRID-N \circ 2 VOLTS = 125



ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9854

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AVERAGE CHARACTERISTICS

